

# VI-3221un

## Multi-DSL VoIP WLAN IAD



### Description

The VI-3221un is a leading Multi-DSL WLAN VoIP Integrated Access Device (IAD) with 802.11n(draft) compliant that can support both ADSL2+ and VDSL2, and providing predictable, real-time, toll-quality voice over the Internet.

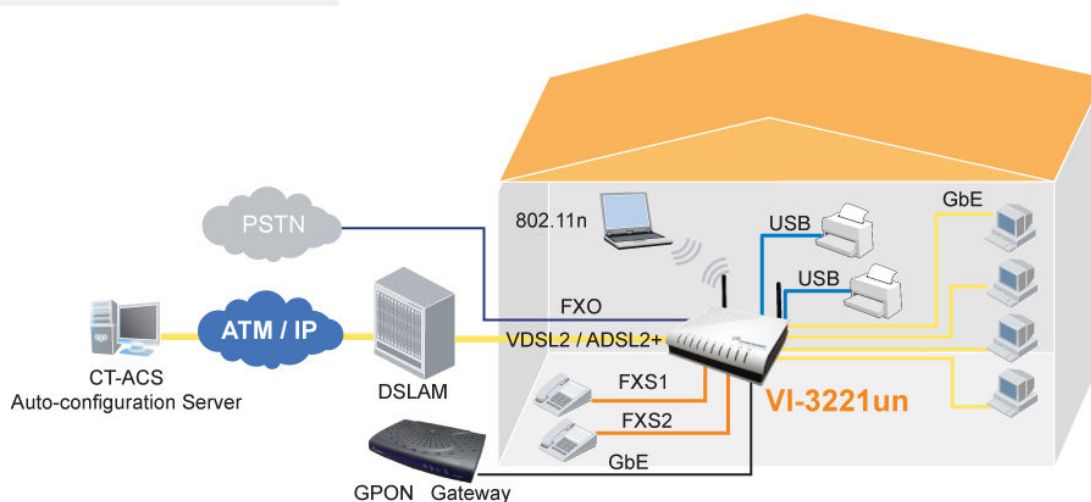
VDSL2 is a brand new standard and technology that is perfectly suitable for triple play (Video, Voice and Data) applications. Five 10/100/1000 Base-T Gigabit Ethernet ports as LAN and WAN, and two USB hosts are integrated to provide wired LAN connectivity with an integrated 802.11n WiFi WLAN Access Point (AP) for wireless connectivity. It also provides VoIP via standard analog phones.

The VI-3221un is a cost effective solution, designed to meet the needs of ISPs and carriers that intend to use one DSL device to cover end users in different loop range areas. Using only one DSL device creates savings for the TCO of ISP and carrier, while simultaneously providing valuable services without the need for upgrade.

### Features

- Multi-DSL VoIP and Router Integrated
- Supports both ADSL2+ and VDSL2 (up to 17a Profile)
- Automatically switches to ADSL2+ /VDSL2 according to the port setting of DSLAM
- IP QoS
- UPnP
- Integrated 802.11 b/g/n AP
- WPA and 802.1x
- RADIUS client
- IP/MAC address filtering
- Static route/RIP/RIP v2 routing functions
- IGMP Proxy and fast leave
- DHCP Server/Relay/Client
- Supports fast emergency call
- Supports QoS (Quality of Service) for voice
- Supports caller ID display and restriction
- Supports call hold, call waiting, call forwarding, call transfer, 3-way conference
- Supports Direct number dialing
- Supports T.38
- Supports VPN Pass-Through
- Supports Day-time parental control
- Supports TR-069/TR-098/TR-104/TR-111
- Supports remote administration, automatic firmware upgrade and configuration
- User Friendly Color connections

### Applications Diagram



# VI-3221un

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### Specifications

#### Hardware Interface

RJ-11 X1 for ADSL2+/VDSL2, RJ-45 X 4 for Giga LAN, RJ X 45 for Giga WAN, FXS X2, FXO X1, Reset Button X 1, WPS button x1, Wi-Fi On/Off button x 1, Wi-Fi Antennas X 2, Power switch X 1, USB Host X2

#### WAN Interface

ADSL standard	ITU-T G.992.5, ITU-T G.992.3, ITU-T G.992.1, ANSI T1.413 Issue 2, AnnexM
ADSL2+	Downstream : 24 Mbps Upstream : 1.3 Mbps
VDSL2 standard	ITU-T G.993.2 (supporting profile 8a, 8b, 8c, 8d, 12a, 12b, 17a)
VDSL2	Downstream : 100 Mbps Upstream : 60 Mbps

#### LAN Interface

Standard	IEEE 802.3, IEEE 802.3u
10/100 BaseT	Auto-sense
MDI/MDX support	Yes

#### WLAN Interface

Standard	IEEE802.11n draft, backward compatible with 802.11g/b
Encryption	64, 128-bit Wired Equivalent Privacy (WEP) Data Encryption
Channels	11 Channels (US, Canada)/ 13 Channels (Europe)/ 14 Channels (Japan)
Data Rate	Up to 300Mbps
MAC address filtering, WEP, WPA, IEEE 802.1x	
10, 25, 50, 100mW @ 22MHz channel bandwidth output power level can be selected according to the environment	

#### ATM Attributes

RFC 2364 (PPPoA), RFC 2684 (RFC 1483) Bridge/Route; RFC 2516 (PPPoE); RFC 1577 (IPoA)	
Support PVCs	16
AAL type	AAL5
ATM service class	UBR/CBR/VBR
ATM UNI support	UNI 3.1/4.0
OAM F4/F5	Yes

#### Management

TR-069/TR-098/TR-104/TR-111, SNMP, Telnet, Web-based management, Configuration backup and restoration  
Software upgrade via HTTP, TFTP server, or FTP server.

#### Bridge Functions

Transparent bridging and learning	IEEE 802.1d
VLAN support	Yes
Spanning Tree Algorithm	Yes
IGMP Proxy	Yes

#### Routing Functions

Static route, RIP, and RIPv2, NAT/PAT, DHCP Server/DHCP Relay, DNS Proxy, ARP

#### Security Functions

Authentication protocols	PAP, CHAP,
TCP/IP/Port filtering rules, Port triggering/Forwarding, Packet and MAC address filtering, access control, SSH	

#### QoS

L3 policy-based QoS, IP QoS, ToS

#### Voice Functions

SIP	RFC 3261
MGCP	RFC 3435
Codec	G.711, G.723.1, G.726, G.729ab
RTP	RFC 1889
SDP	RFC 2327
Caller ID	ETSI based
Life line/Emergency call	Yes
Echo cancellation	G.168
Silence suppression	Yes

#### Power Supply

External power adapter	12VDC / 2A
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#### Environmental Conditions

Operating temperature	0 ~ 50 degrees Celsius
Relative humidity	5 ~ 95% (non-condensing)

#### Dimensions

#### Kit Weight (1\*VI-3221un, 1\* RJ-11 cable, 1\* RJ-45 cable, 1\* USB cable, 1\* Power Adapter, 1\* CD-ROM)

Note: Specifications are subject to change without notice.

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